

**PRE-CALIBRATION**

Calculation from Calibration (18:00 Eastern Time) to Assay Time

DAY THREE PRE-CALIBRATION					DAY TWO PRE-CALIBRATION				DAY ONE PRE-CALIBRATION					
	Hours Before Cal	Decay Factor	Activity (GBq)	Activity (mCi)		Hours Before Cal	Decay Factor	Activity (GBq)	Activity (mCi)		Hours Before Cal	Decay Factor	Activity (GBq)	Activity (mCi)
8:00 AM	82	2.427	7.281	196.79	6:00 PM	72	2.178	6.535	176.62	6:00 PM	48	1.680	5.041	136.25
	81.5	2.414	7.242	195.73		71.5	2.167	6.500	175.67		47.5	1.671	5.014	135.52
9:00 AM	81	2.401	7.203	194.68	7:00 PM	71	2.155	6.465	174.72	7:00 PM	47	1.662	4.987	134.79
	80.5	2.388	7.164	193.63		70.5	2.143	6.430	173.78		46.5	1.653	4.960	134.06
10:00 AM	80	2.375	7.126	192.58	8:00 PM	70	2.132	6.395	172.84	8:00 PM	46	1.644	4.933	133.34
	79.5	2.362	7.087	191.55		69.5	2.120	6.361	171.91		45.5	1.636	4.907	132.62
11:00 AM	79	2.350	7.049	190.51	9:00 PM	69	2.109	6.326	170.99	9:00 PM	45	1.627	4.880	131.90
	78.5	2.337	7.011	189.48		68.5	2.097	6.292	170.06		44.5	1.618	4.854	131.19
<b>NOON</b>	78	2.324	6.973	188.46	10:00 PM	68	2.086	6.258	169.15	10:00 PM	44	1.609	4.828	130.48
	77.5	2.312	6.936	187.45		67.5	2.075	6.225	168.23		43.5	1.601	4.802	129.78
1:00 PM	77	2.299	6.898	186.44	11:00 PM	67	2.064	6.191	167.33	11:00 PM	43	1.592	4.776	129.08
	76.5	2.287	6.861	185.43		66.5	2.053	6.158	166.43		42.5	1.583	4.750	128.38
2:00 PM	76	2.275	6.824	184.43	<b>MIDNIGHT</b>	66	2.042	6.125	165.53	<b>MIDNIGHT</b>	42	1.575	4.725	127.69
	75.5	2.262	6.787	183.44		65.5	2.031	6.092	164.64		41.5	1.566	4.699	127.00
3:00 PM	75	2.250	6.751	182.45	1:00 AM	65	2.020	6.059	163.75	1:00 AM	41	1.558	4.674	126.32
	74.5	2.238	6.714	181.46		64.5	2.009	6.026	162.86		40.5	1.550	4.649	125.64
4:00 PM	74	2.226	6.678	180.49	2:00 AM	64	1.998	5.994	161.99	2:00 AM	40	1.541	4.624	124.96
	73.5	2.214	6.642	179.51		63.5	1.987	5.961	161.11		39.5	1.533	4.599	124.29
5:00 PM	73	2.202	6.606	178.54	3:00 AM	63	1.976	5.929	160.24	3:00 AM	39	1.525	4.574	123.62
	72.5	2.190	6.571	177.58		62.5	1.966	5.897	159.38		38.5	1.516	4.549	122.95
					4:00 AM	62	1.955	5.865	158.52	4:00 AM	38	1.508	4.525	122.29
						61.5	1.945	5.834	157.67		37.5	1.500	4.500	121.63
					5:00 AM	61	1.934	5.802	156.82	5:00 AM	37	1.492	4.476	120.97
						60.5	1.924	5.771	155.97		36.5	1.484	4.452	120.32
					6:00 AM	60	1.913	5.740	155.13	6:00 AM	36	1.476	4.428	119.67
						59.5	1.903	5.709	154.29		35.5	1.468	4.404	119.02
					7:00 AM	59	1.893	5.678	153.46	7:00 AM	35	1.460	4.380	118.38
						58.5	1.882	5.647	152.63		34.5	1.452	4.357	117.74
					8:00 AM	58	1.872	5.617	151.81	8:00 AM	34	1.444	4.333	117.11
						57.5	1.862	5.587	150.99		33.5	1.437	4.310	116.48
					9:00 AM	57	1.852	5.557	150.18	9:00 AM	33	1.429	4.286	115.85
						56.5	1.842	5.527	149.37		32.5	1.421	4.263	115.23
					10:00 AM	56	1.832	5.497	148.56	10:00 AM	32	1.413	4.240	114.60
						55.5	1.822	5.467	147.76		31.5	1.406	4.217	113.99
					11:00 AM	55	1.813	5.438	146.96	11:00 AM	31	1.398	4.195	113.37
						54.5	1.803	5.408	146.17		30.5	1.391	4.172	112.76
					<b>NOON</b>	54	1.793	5.379	145.38	<b>NOON</b>	30	1.383	4.150	112.15
						53.5	1.783	5.350	144.60		29.5	1.376	4.127	111.55
					1:00 PM	53	1.774	5.321	143.82	1:00 PM	29	1.368	4.105	110.95
						52.5	1.764	5.293	143.04		28.5	1.361	4.083	110.35
					2:00 PM	52	1.755	5.264	142.27	2:00 PM	28	1.354	4.061	109.75
						51.5	1.745	5.236	141.51		27.5	1.346	4.039	109.16
					3:00 PM	51	1.736	5.208	140.74	3:00 PM	27	1.339	4.017	108.57
						50.5	1.726	5.179	139.98		26.5	1.332	3.996	107.99
					4:00 PM	50	1.717	5.151	139.23	4:00 PM	26	1.325	3.974	107.40
						49.5	1.708	5.124	138.48		25.5	1.318	3.953	106.83
					5:00 PM	49	1.699	5.096	137.73	5:00 PM	25	1.310	3.931	106.25
						48.5	1.690	5.069	136.99		24.5	1.303	3.910	105.68

To calculate the percentage of spheres drawn from the vial, please divide the GBq drawn by the activity at the time of draw, as noted in this Radioactive Decay Dosing Chart.

**DAY OF CALIBRATION**

Calculation from Calibration (18:00 Eastern Time) to Assay Time

DAY OF CALIBRATION				
	Hours Before Cal	Decay Factor	Activity (GBq)	Activity (mCi)
6:00 PM	24	1.296	3.889	105.11
	23.5	1.289	3.868	104.54
7:00 PM	23	1.282	3.847	103.98
	22.5	1.275	3.826	103.42
8:00 PM	22	1.269	3.806	102.86
	21.5	1.262	3.785	102.30
9:00 PM	21	1.255	3.765	101.75
	20.5	1.248	3.745	101.20
10:00 PM	20	1.241	3.724	100.66
	19.5	1.235	3.704	100.11
11:00 PM	19	1.228	3.684	99.57
	18.5	1.221	3.664	99.04
<b>MIDNIGHT</b>	18	1.215	3.645	98.50
	17.5	1.208	3.625	97.97
1:00 AM	17	1.202	3.605	97.44
	16.5	1.195	3.586	96.92
2:00 AM	16	1.189	3.567	96.40
	15.5	1.182	3.547	95.88
3:00 AM	15	1.176	3.528	95.36
	14.5	1.170	3.509	94.85
4:00 AM	14	1.163	3.490	94.33
	13.5	1.157	3.472	93.83
5:00 AM	13	1.151	3.453	93.32
	12.5	1.145	3.434	92.82
6:00 AM	12	1.139	3.416	92.32
	11.5	1.132	3.397	91.82
7:00 AM	11	1.126	3.379	91.32
	10.5	1.120	3.361	90.83
8:00 AM	10	1.114	3.343	90.34
	9.5	1.108	3.325	89.85
9:00 AM	9	1.102	3.307	89.37
	8.5	1.096	3.289	88.89
10:00 AM	8	1.090	3.271	88.41
	7.5	1.084	3.253	87.93
11:00 AM	7	1.079	3.236	87.46
	6.5	1.073	3.218	86.99
<b>NOON</b>	6	1.067	3.201	86.52
	5.5	1.061	3.184	86.05
1:00 PM	5	1.056	3.167	85.59
	4.5	1.050	3.150	85.12
2:00 PM	4	1.044	3.133	84.67
	3.5	1.039	3.116	84.21
3:00 PM	3	1.033	3.099	83.75
	2.5	1.027	3.082	83.30
4:00 PM	2	1.022	3.066	82.85
	1.5	1.016	3.049	82.41
5:00 PM	1	1.011	3.033	81.96
	0.5	1.005	3.016	81.52
6:00 PM	0	1	3.000	81.08

**POST-CALIBRATION**

Calculation from Calibration (18:00 Eastern Time) to Assay Time

POST-CALIBRATION				
	Hours After Cal	Decay Factor	Activity (GBq)	Activity (mCi)
6:00 PM	0	1	3.000	81.08
	0.5	0.99460784	2.984	80.64
7:00 PM	1	0.989244756	2.968	80.21
	1.5	0.98391059	2.952	79.78
8:00 PM	2	0.978605187	2.936	79.35
	2.5	0.973328391	2.920	78.92
9:00 PM	3	0.968080049	2.904	78.49
	3.5	0.962860007	2.889	78.07
10:00 PM	4	0.957668111	2.873	77.65
	4.5	0.952504212	2.858	77.23
11:00 PM	5	0.947368157	2.842	76.81
	5.5	0.942259796	2.827	76.40
<b>MIDNIGHT</b>	6	0.937178981	2.812	75.99
	6.5	0.932125562	2.796	75.58
1:00 AM	7	0.927099392	2.781	75.17
	7.5	0.922100324	2.766	74.76
2:00 AM	8	0.917128212	2.751	74.36
	8.5	0.91218291	2.737	73.96
3:00 AM	9	0.907264274	2.722	73.56
	9.5	0.90237216	2.707	73.17
4:00 AM	10	0.897506425	2.693	72.77
	10.5	0.892666927	2.678	72.38
5:00 AM	11	0.887853524	2.664	71.99
	11.5	0.883066076	2.649	71.60
6:00 AM	12	0.878304443	2.635	71.21
	12.5	0.873568485	2.621	70.83
7:00 AM	13	0.868858064	2.607	70.45
	13.5	0.864173042	2.593	70.07
8:00 AM	14	0.859513283	2.579	69.69
	14.5	0.85487865	2.565	69.31
9:00 AM	15	0.850269008	2.551	68.94
	15.5	0.845684221	2.537	68.57
10:00 AM	16	0.841124157	2.523	68.20
	16.5	0.836588681	2.510	67.83
11:00 AM	17	0.832077661	2.496	67.47
	17.5	0.827590965	2.483	67.10
<b>NOON</b>	18	0.823128462	2.469	66.74
	18.5	0.818690022	2.456	66.38
1:00 PM	19	0.814275515	2.443	66.02
	19.5	0.809884811	2.430	65.67
2:00 PM	20	0.805517783	2.417	65.31
	20.5	0.801174302	2.404	64.96
3:00 PM	21	0.796854242	2.391	64.61
	21.5	0.792557477	2.378	64.26
4:00 PM	22	0.78828388	2.365	63.91
	22.5	0.784033327	2.352	63.57
5:00 PM	23	0.779805694	2.339	63.23
	23.5	0.775600858	2.327	62.89
6:00 PM	24	0.771418694	2.314	62.55